

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	380289	binder	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:24
2	L2	92751	glass adj transition near5 temperature or tg or "t.sub.g"	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:25
3	L3	391791	particle near5 (size or diameter)	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:26
4	L4	50925	(resin or polymer) near5 emulsion	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:26
5	L5	32052	particle adj size adj distribution	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:27
6	L6	482	1 same 2 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:27
7	L7	482	4 same 2 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:27
8	L9	72	6 and ink	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:27
9	L10	81	7 and ink	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:40

	L #	Hits	Search Text	DBs	Time Stamp
10	L11	1334	1 same 2 and 1 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:40
11	L13	677	4 same 2 and 4 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:41
12	L14	81	11 and 13	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:45
13	L8	43	1 near10 narrow near10 5	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:46
14	L16	37	15 and ink.ti.	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:48
15	L17	36	13 and ink.ti.	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 14:48
16	L15	319	11 and ink	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:01
17	L18	147	13 and ink	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:05
18	L19	1395	1 and 2 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:13

	L #	Hits	Search Text	DBs	Time Stamp
19	L20	309607	ink	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:06
20	L21	334	19 and 20	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:13
21	L22	1232	4 and 2 same 3	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:13
22	L23	272	22 and 20	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:13
23	L24	105	23 not 21	USPAT; US-PGPU B; EPO; JPO; DERWENT ; IBM_TDB	2002/01/18 15:16

CLIPPEDIMAGE= JP363235356A

PAT-NO: JP363235356A

DOCUMENT-IDENTIFIER: JP 63235356 A

TITLE: ACRYLIC POLYMER EMULSION

PUBN-DATE: September 30, 1988

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APPL-NO: JP62068923

APPL-DATE: March 25, 1987

INT-CL (IPC): C08L033/08; C08F002/22 ; C08F220/12

US-CL-CURRENT: 524/460

ABSTRACT:

PURPOSE: To provide the title emulsion having well-balanced properties with regard to adhesion, elasticity and strength, consisting of an aqueous emulsified copolymer obtd. from an alkyl (meth)acrylate monomer, an ethylenically unsaturated carboxylic acid monomer and a copolymerizable monomer.

CONSTITUTION: 100pts.wt. mixture of 70 $\pm$ 99.5% (by weight; the same applies hereinbelow) alkyl (meth)acrylate (A) having a 1 $\pm$ 10C alkyl group, 0.5 $\pm$ 15% ethylenically unsaturated carboxylic acid monomer (B) and 0 $\pm$ 20% monomer (C) copolymerizable therewith is emulsion-polymerized in 100 $\pm$ 300pts.wt. water (D) in the presence of an emulsifying agent, a chain transfer agent and a polymn. initiator (E) at 5 $\pm$ 80 $^{\circ}$ C for 15 $\pm$ 30hr to obtain the title emulsion composed of an aqueous emulsified copolymer having a weight-average MW (Mw) of 100,000 $\pm$ 700,000 in terms of PS, a ratio of Mw to number-average MW (Mn) of 1.4 $\pm$ 6, such a glass transition temp. profile that at least two peak positions exist between -45 and -30 $^{\circ}$ C and between -25 and 5 $^{\circ}$ C and such a particle size distribution that 35 $\pm$ 65% of the powder is composed of particles having an average particle size of 2,000 $\pm$ 3,000 $\text{\AA}$ ; 35 $\pm$ 65% thereof is composed of particles having an average particle size of 4,000 $\pm$ 5,000 $\text{\AA}$ ; and at least 80% thereof is composed of particles having an average particle size of 2,000 $\pm$ 6,000 $\text{\AA}$ ;

35-65% 200-300nm  
35-65% 400-500nm  
at least 80% 200-600nm